

Recombinant Human TPH2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TPH2-2024H Lot. No. (See product label)

SPECIFICATION

Product Overview

TPH2 MS Standard C13 and N15-labeled recombinant protein (NP_775489) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes a member of the pterin-dependent aromatic acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene may be associated with psychiatric diseases such as bipolar affective disorder and major depression.

Molecular Mass

56.1 kDa

AA Sequence

MQPAMMMFSSKYWARRGFSLDSAVPEEHQLLGSSTLNKPNKNSGKNDDKGNKGSSK
 REAATESGKTAVVFLKNEVGGLVKALRLFQEKRVMNHIESRKSRRRSSEVEIFVD
 CECGKTEFNELIQLLKFFQTTIVTLNPPENIWTEEELEDPWFPRKISELDKCSHRVL
 MYGSELDADHPGFKDNVYRQRRKYFVDVAMGYKYGQPIPRVEYTEETKTWGVVF
 RELSKLYPTHACREYLKNFPLLTKYCGYREDNVPQLEDVSMFLKERSGFTVRPVAG
 YLSRDFLAGLAYRVFHCTQYIRHGSDPLYTPEPDTCHELLGHVPLLADPKFAQFSQ
 EIGLASLGASDEDVQKLATCYFFTIEFGLCKQEGQLRAYGAGLLSSIGELKHALSDKA
 CVKAFDPKTTCLQECLITTFQEAYFVSESFEEAKEKMRDFAKSITRPFSVYFNPYTQS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



IEILKDTRSIENVVQDLRSDLNTVCDALNKMNQYLGITRTRPLEQKLISEEDLAANDILD
YKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TPH2 tryptophan hydroxylase 2 [Homo sapiens (human)]

Official Symbol TPH2

Synonyms TPH2; tryptophan hydroxylase 2; tryptophan 5-hydroxylase 2; FLJ37295; NTPH; tryptophan 5-monoxygenase 2; neuronal tryptophan hydroxylase; ADHD7; MGC138871; MGC138872;

Gene ID 121278

mRNA Refseq NM_173353

Protein Refseq NP_775489

MIM 607478

Tel: 1-631-559-9269 1-516-512-3133

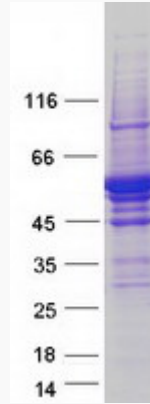
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UniProt ID

Q8IWU9

SDS-PAGE



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